

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: BARDEN POND	Lake Area (ha):	6.27
Town: WASHINGTON	Maximum depth (m):	---
County: Sullivan	Mean depth (m):	---
River Basin: Merrimack	Volume (m <sup>3</sup> ):	---
Latitude: 43°08'09" N	Relative depth:	---
Longitude: 72°06'33" W	Shore configuration:	---
Elevation (ft): 1685	Areal water load (m/yr):	---
Shore length (m): ---	Flushing rate (yr <sup>-1</sup> ):	---
Watershed area (ha): ---	P retention coeff.:	---
% watershed ponded: ---	Lake type:	natural

BIOLOGICAL:

7 July 1999

DOM. PHYTOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)		
BACTERIA (E. coli, #/100 ml)	#1	
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):  
Hypolimnion volume (m<sup>3</sup>) :  
Anoxic volume (m<sup>3</sup>) :

**CHEMICAL:**

Lake: BARDEN POND

Town: WASHINGTON

	7 July 1999				
DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY ( $\mu$ mhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 1999**

D.O. S.D. PLANT CHL TOTAL CLASS

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**COMMENTS:**

1. Barden Pond was visited in 1999 and was determined to be inaccessible to sample. It can be reached by hiking approximately 30 minutes along an old logging road too rough to drive to just below the height of land, and then taking a right on another logging road for 300 yards where the pond is visible through the trees. The pond and watershed is undeveloped.